

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT2615503

SUBMISSION TYPE:	NEW ASSIGNMENT								
NATURE OF CONVEYANCE:	ASSIGNMENT								
CONVEYING PARTY DATA									
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>CHIN-HSIUNG HSU</td> <td>08/28/2013</td> </tr> <tr> <td>YUAN-TE HOU</td> <td>08/28/2013</td> </tr> <tr> <td>WEN-HAO CHEN</td> <td>08/28/2013</td> </tr> </tbody> </table>		Name	Execution Date	CHIN-HSIUNG HSU	08/28/2013	YUAN-TE HOU	08/28/2013	WEN-HAO CHEN	08/28/2013
Name	Execution Date								
CHIN-HSIUNG HSU	08/28/2013								
YUAN-TE HOU	08/28/2013								
WEN-HAO CHEN	08/28/2013								
RECEIVING PARTY DATA									
Name:	TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY LIMITED								
Street Address:	NO. 8, LI-HSIN ROAD, VI								
Internal Address:	HSINCHU SCIENCE PARK								
City:	HSINCHU								
State/Country:	TAIWAN								
PROPERTY NUMBERS Total: 1									
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>14080222</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	14080222				
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Application Number:	14080222								
CORRESPONDENCE DATA									
Fax Number:	(212)755-7306								
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Address Line 4:	NEW YORK, NEW YORK 10017								
ATTORNEY DOCKET NUMBER:	181877-625030								
NAME OF SUBMITTER:	MATTHEW W. JOHNSON								
Signature:	/Matthew W. Johnson/								
Date:	11/14/2013								
Total Attachments: 1 source=625030_Assignment#page1.tif									

CH \$40.00 14080222

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JOINT

ASSIGNMENT

WHEREAS, WE, CHIN-HSIUNG HSU, YUAN-TE HOU and WEN-HAO CHEN citizen of the Republic of China, having a mailing address of No.207-6, 12th Neighborhood, Luning Village, Guanyin Township, Taoyuan County 32846, Taiwan residing at Taoyuan County, Taiwan, citizen of Republic of China, having a mailing address of No.16, Alley 3, Lane 61, Wuling Rd., North District, Hsinchu City 300, Taiwan residing at Hsinchu City, Taiwan, and citizen of Republic of China, having a mailing address of 11F-1, No. 99, JingFu Street., Hsinchu city, Taiwan residing at Hsinchu city, Taiwan, ASSIGNORS, are the inventors of the invention in "SYSTEMS AND METHODS FOR DESIGNING LAYOUTS FOR SEMICONDUCTOR DEVICE FABRICATION" for which we have executed an application for a Patent of the United States

- which is executed on  even date herewith or  [DATE]
- which is identified by Jones Day docket no. 181877-625030
- which was filed on August \_\_, 2013, Application No. \_\_\_\_\_.
- We hereby authorize and request attorney(s) at Jones Day, to insert here in parentheses (Application number \_\_\_\_\_, filed \_\_\_\_\_) the filing date and application number of said application when known.

and WHEREAS, Taiwan Semiconductor Manufacturing Company Limited, a corporation organized and existing under the laws of Republic of China, and having an office for the transaction of business at No. 8, Li-Hsin Rd. VI, Hsinchu Science Park, Hsinchu, Taiwan, ASSIGNEE, is desirous of obtaining our entire right, title and interest in, to and under the said invention and the said application:

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, we, the said ASSIGNORS, have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said ASSIGNEE, its successors, legal representatives and assigns, our entire right, title and interest in, to and under the said invention, and the said United States application and all divisions, renewals and continuations thereof, and all Patents of the United States which may be granted thereon and all reissues and extensions thereof; and all applications for industrial property protection, including, without limitation, all applications for patents, utility models, and designs which may be filed for said invention in any country or countries foreign to the United States, together with the right to file such applications and the right to claim for the same the priority rights derived from said United States application under the Patent Laws of the United States, the International Convention for the Protection of Industrial Property, or any other international agreement or the domestic laws of the country in which any such application is filed, as may be applicable; and all forms of industrial property protection, including, without limitation, patents, utility models, inventors' certificates and designs which may be granted for said invention in any country or countries foreign to the United States and all extensions, renewals and reissues thereof; and all right to sue for infringement including past infringement.

AND WE HEREBY authorize and request the Commissioner for Patents and any Official of any country or countries foreign to the United States, whose duty it is to issue patents or other evidence or forms of industrial property protection on applications as aforesaid, to issue the same to the said ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND WE HEREBY covenant and agree that we have full right to convey the entire interest herein assigned, and that we have not executed, and will not execute, any agreement in conflict herewith.

AND WE HEREBY further covenant and agree that we will communicate to the said ASSIGNEE, its successors, legal representatives and assigns, any facts known to us respecting said invention; and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, reissue and foreign applications, make all rightful oaths, and generally do everything possible to aid the said ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper protection for said invention in all countries.

IN TESTIMONY WHEREOF, We hereunto set our hands and seals the day and year set opposite our respective signatures.

Date 2013. 08. 28, 2013 Chin-Hsiung Hsu L.S.  
CHIN-HSIUNG HSU

Date 2013. 8. 28, 2013 Yuan-Te Hou L.S.  
YUAN-TE HOU

Date 2013. 08. 28, 2013 Wen-Hao Chen L.S.  
WEN-HAO CHEN